

ABSTRACT OF THE DISCLOSURE

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This invention describes a technique and apparatus to use any tuneable laser to generate a specified output frequency without controlling its temperature. This technique only involves a thermal sensor and a controller to determine the current(s) or voltage(s) applied to the grating or tuning section(s) to obtain the required wavelength. The control  
10 loop can be implemented using a programmed microprocessor, an amplifier and a low pass filter.

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